			PC1/EP 03/1041/					
A CLASSII IPC 7	FICATION OF SUBJECT MATTER F28D9/00 F28F9/02							
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols) I PC 7 F28D F28F								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ								
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		v					
Category °	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.					
A	US 5 992 510 A (KAELLROT KARL MAG 30 November 1999 (1999-11-30) the whole document	nus)	1-6					
A	DE 196 11 447 C (LAENGERER & REIC CO) 10 July 1997 (1997-07-10) the whole document	H GMBH &	1,6					
A	US 5 307 869 A (BLOMGREN RALF) 3 May 1994 (1994-05-03) figures 1-3		3					
Α	DE 198 05 439 A (BEHR GMBH & CO) 12 August 1999 (1999-08-12) figure 1		7					
		/						
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X Furt	ner documents are listed in the continuation of box C.	X Patent family me	nembers are listed in annex.					
° Special ca	tegories of cited documents :	T later document publis	shed after the international filing date					
	ategories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
	tocument but published on or after the international	X document of particula	ar relevance; the claimed invention ed novel or cannot be considered to					
"L" docume	nt which may throw doubts on priority claim(s) or	involve an inventive	step when the document is taken alone					
citation	n or other special reason (as specified)	cannot be considere document is combine						
other n	O' document referring to an oral disclosure, use, exhibition or other means and document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.							
			of the same patent family ne international search report					
	of the actual completion of the international search Date of mailing of the international search report 19 November 2003 11 12 2003							
Name and mailing address of the ISA Authorized officer								
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		ANNETTE RIEDEL/JAA						



International Application No
PCT/EP 03/10417

		PCT/EP 03/10417				
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	GB 2 068 526 A (APV CO LTD) 12 August 1981 (1981-08-12) figure 1	4,5				
A	EP 0 622 600 A (KNECHT FILTERWERKE GMBH) 2 November 1994 (1994-11-02) figures 4,5	1-7				
A	DE 200 10 816 U (BEHR GMBH & CO) 15 November 2001 (2001-11-15) figures	7				
A	US 6 039 112 A (RUPPEL WOLFGANG ET AL) 21 March 2000 (2000-03-21) figure 1	1,4				
A	US 2 648 527 A (CARNAHAN ORSON A) 11 August 1953 (1953-08-11) figures 2,7	1,2,6				
A	EP 0 384 305 A (BEHRINGWERKE AG) 29 August 1990 (1990-08-29) figure 1	1,2,4				



IN RNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP 03/10417

Patent document cited in search report	Publication date	Patent memb		Publication date
US 5992510 A	30-11-1999	DE 696 DE 696 EP 08 JP 20005	09199 A 27016 D1 27016 T2 68642 A1 02786 T 23759 A1	24-02-1999 30-04-2003 06-11-2003 07-10-1998 07-03-2000 03-07-1997
DE 19611447 C	10-07-1997	FR 27	11447 Cl 46491 Al 70631 Al	10-07-1997 26-09-1997 22-09-1997
US 5307869 A	03-05-1994	DE 691 EP 05 JP 31 JP 55 SE 90	06125 D1 06125 T2 17785 A1 00396 B2 06496 T 00712 A 13308 A1	02-02-1995 04-05-1995 16-12-1992 16-10-2000 22-09-1993 29-08-1991 05-09-1991
DE 19805439 A	12-08-1999	DE 198	05439 A1	12-08-1999
GB 2068526 A	12-08-1981	DE 31 EP 00 JP 561	2241 T 00440 A 60021 D1 033201 A2 19496 A 98591 A	15-01-1983 11-08-1981 17-02-1983 05-08-1981 19-09-1981 16-08-1983
EP 0622600 A	02-11-1994	DE 594 EP 06	13596 A1 02802 D1 22600 A1 02708 T3	27-10-1994 26-06-1997 02-11-1994 01-08-1997
DE 20010816 U	15-11-2001	DE 200	10816 U1	15-11-2001
US 6039112 A	21-03-2000	DE 197	09601 A1	10-09-1998
US 2648527 A	11-08-1953	NONE		
EP 0384305 A	29-08-1990		05066 A1 84305 A1	23-08-1990 29-08-1990